MICHIGAN SUPERFUND SITE COOPERATIVE AGREEMENT QUARTERLY PROGRESS REPORT STATE LEAD SITE

EPA Region 5 Records Ctr.

Reporting Period: FY97, Q1

Site name: North Bronson Industrial Area (1C) CA #: V005934-01

Activity: RI/FS Budget period ends: 6/01/97

WORK ACCOMPLISHED DURING REPORTING PERIOD FOR THIS SITE AND ACTIVITY: (PROBLEMS AND DELAYS ENCOUNTERED THIS PERIOD, CORRECTIVE MEASURES TAKEN OR PLANNED) <u>IDENTIFY BY TASK NAME AND NUMBER:</u>

Task 5: Phase II Remedial Investigation
Task complete December 1991.

Task 6: Remedial Investigation Report Task complete July 1993.

Task 7: Baseline Risk Assessment Task complete July 1993.

<u>Task 8: Alternatives Array</u> Task complete September 1994.

Task 9: Feasibility Study

The MDEQ project manager prepared and forwarded the second draft of FS revisions to the MDEQ toxicologist and the EPA for review. Comments on the draft FS were received and incorporated into the final draft of this document by the MDEQ project manager. The MDEQ also received a draft constructed wetland alternative from Robert Kadlec Ph.D. The draft alternative screening document was provided to the EPA and the MDEQ Design and O&M unit for review and comment. Comments received from EPA and MDEQ staff prompted an MDEQ sponsored site visit with Dr. Kadlec, representatives from EPA, MDEQ Design/O&M unit, the PRPs and the city of North Bronson. The site visit included a technical briefing and a question and answer session conducted by Dr. Kadlec and MDEQ about the wetland and its potential use at Bronson. At the briefing MDEQ and EPA decided to have Dr. Kadlec prepare three conceptual wetland designs for the site. Each design would address three different treatment scenarios. Each scenario would be based on the amount of water the wetland would have to treat and the desired treatment efficiencies. Each wetland alternative will be included in the final revised FS and will provide enough information to proceed with a proposed plan.

The MDEQ sub-contracted Dr. Kadlec through Malcolm Pirnie. The original contract and scope of work which Dr. Kadlec completed, was not to exceed \$5,000. Another \$5,000 will be required for the additional

work requested by EPA and MDEQ for Dr. Kadlec. A new scope of work will be prepared by MDEQ and administered by Malcolm Pirnie.

The EPA has selected the city of Bronson as a pilot site for the new EPA community relations initiative, the Community Advisory Group (CAG). The CAG provides a setting in which volunteer representatives of the community can get up-to-date information about the status of clean-up activities, as well as discuss community views and concerns about the clean-up process. The EPA and the MDEQ hosted an informational meeting on December 10, 1996 to introduce the concept to the community and evaluate their desire to establish a CAG. Several members of the community participated in this meeting and indicated an interest in the program. They will meet in January and decide on any future activities.

MDEQ staff received the CLP sample results from the industrial sewer investigation in December. The data and its analysis will be reported to EPA in a Technical Memorandum being prepared by the site geologist and project manager. The results of our analysis and the impact on future remedial actions will be discussed with EPA in March 1997.

Expenditures for work under Task 9 will be captured under Task 10.

Task 10: Proposed Plan

The North Bronson RI/FS (proposed plan) schedule was revised to reflect the delay caused by the revisions to the FS and the screening of the constructed wetland alternative. The revised schedule will be submitted to the EPA for approval.

Task 11: Administrative Record

None.

Task 12: Draft ROD

None.

Task 13: Final ROD

None.

Task 14: Post ROD/Closet

None

PLANNED % OF SCHEDULED ACTIVITIES (Task 10) TO BE COMPLETED: 100% ACTUAL % OF ACTIVITIES COMPLETED: 85%

EXPLANATION OF SIGNIFICANT DIFFERENCE: Refer to Task 10 comments.

PLANNED % OF SCHEDULED ACTIVITY (TASK 11) TO BE COMPLETED: 60% ACTUAL % OF ACTIVITY COMPLETED: 60%

EXPLANATION OF SIGNIFICANT DIFFERENCE: NA FINANCIAL REPORTING FOR EACH ONGOING TASK

TASK 10 - PROPOSED PLAN		CONTRACTOR	<u>AGENCY</u>
Planned Budget		\$5,000	\$50,000
Estimated Expenditures prior to this qua	arter:	0	\$60,700
Estimated Expenditures* Quarter 1		\$1,400#	\$13,000
Estimated Expenditures to Date:		\$1,400	\$73,700
	ESTIMATED BALANCE	5: \$3,600	(\$23,700)

^{*} Expenditures reported under Task 10 include FS(Task 9) revisions, the wetland alternative review, CAG initiatives and the industrial sewer investigation.

[#] Contractor invoice attached.

Task 11 - ADMINISTRATIVE RECORD	CONTRACTOR	<u>AGENCY</u>
Planned Budget	\$0	\$10,000
Estimated Expenditures prior to this quarter:	\$ 0	\$ 1,000
Estimated Expenditures Quarter 4	\$0	\$ 0
Estimated Expenditures to Date:	\$0	\$ 1,000
ESTIMATED BAI	LANCE: \$0	\$ 9,000

TASKS 1-11 FINANCIAL REPORTING

	CONTRACTOR 1	AGENCY
PLANNED RI/FS BUDGET:	\$1,200,000	\$240,000
ESTIMATED EXPENDITURES PRIOR TO THIS QR:	\$1,038,000	\$241,200
ESTIMATED EXPENDITURES QUARTER 1	\$ 0	\$ 13,000
ESTIMATED EXPENDITURES TO DATE:	\$1,038,000	\$254,200
PLANNED RI/FS BUDGET: ESTIMATED EXPENDITURES PRIOR TO THIS QR:	CONTRACTOR 2 \$ 5,000 \$ 0	
ESTIMATED EXPENDITURES QUARTER 1	\$ 1,340	
ESTIMATED EXPENDITURES TO DATE:	\$ 1,340	
TOTAL ESTIMATED EXPENDITURES TO DATE	\$ 1,039,340	\$(14,200)

TOTAL FUNDING FOR THIS ACTIVITY (RI/FS): \$ 1,440,000 TOTAL ESTIMATED EXPENDITURES TO DATE: \$ 1,293,540 ESTIMATED BALANCE: \$ 146,460

FUNDS AND TIME REMAINING (BALANCE): \$146,000 and 6 months.

ESTIMATED TIME AND FUNDS NEEDED TO COMPLETE REQUIRED WORK: 6 months and \$150,000. Agency expenditures above the budgeted amounts will be covered by funds remaining in the total budget.

EXPLANATION OF ANY SIGNIFICANT DISCREPANCY/JUSTIFICATION FOR INCREASE: Current project end date is 97 June 01. Additional time may be required to complete the review of the wetland alternative and to accommodate the requests of the CAG.

Approved by Slonge Campon Date 2/10/97



N9611516

MALCOLM PIRNIE, INC. ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

DIRECT LABOR/OVERHEAD & OTHER DIRECT COST INVOICE

DATE: November, 1996

INVOICE NO .: 2420-050-#1

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

COST RECOVERY BREAKDOWN FOR:

CONTRACT RELEASE NO .:

SERVICE PERIOD:

From June 27, 1996 through November 1, 1996, for services provided for Direct Labor and ODCs.

BILL TO:

Administration Section

Environmental Response Division

Michigan Department of Environmental Quality

P. O. Box 30426 Lansing, MI 48909

REMIT PAYMENT TO:

Malcolm Pirnie Engineers

CONTRACT NO.: ERD #9499

FEDERAL ID NO.

102 Corporate Park Drive, Box 751

White Plains, NY 10602-0751

COPY TO:

William L. Harman

MDEQ-ERD Superfund 300 S. Washington Square

Lansing, MI 48933

TOTAL DIRECT LABOR

\$477.03

OVERHEAD 1.617%

\$771.36

LABOR FEE (10%)

\$124.84

TOTAL LABOR

\$1,373.23

TOTAL OTHER DIRECT COSTS

\$11.34

FEE 10%

\$1.13

TOTAL ODC

\$12.47

TOTAL AMOUNT DUE

\$1,385.70

CONSULTANT'S CERTIFICATION: I CERTIFY THAT THE SERVICES LISTED ABOVE ARE

PROPER CHARGES AGAINST THE STATE OF MICHIGAN.

Certifying Signature of Consultant Staff

Signature of Prime Consultant's Project Manager

411C WEST LAKE LANSING ROAD

EAST LANSING, MI 48823-1439

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517-337-0111

FAX 517-337-0417

SUMMARY OF DIRECT LABOR

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

LABOR	EMPLOYEE		THIS PERIOD		JOB-TO	
CLASS	NAME	RATE	HOURS	COST	HOURS	COST
P4			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL			0.0	\$0.00	0.0	\$0.00
P3	THRASOS EFTAXIADIS	\$35.55	10.5	\$373.28	10.5	\$373.28
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
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			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL			10.5	\$373.28	10.5	\$373.28
P2			0.0	\$0.00	0.0	\$0.00
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SUBTOTAL			0.0	\$0.00	0.0	\$0.00
P1			0.0	\$0.00	0.0	\$0.00
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SUBTOTAL			0.0	\$0.00	0.0	\$0.00
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			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL			0.0	\$0.00	0.0	\$0.00
CL	DARA THOMAS	\$9.50	2.5	\$23.75	2.5	\$23.75
	DARLENE HUFNAGEL	\$16.00	5.0	\$80.00	5.0	\$80.00
		-	0.0	\$0.00	0.0	\$0.00
		:	0.0	\$0.00	0.0	\$0.00
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SUBTOTAL			7.5	\$103.75	7.5	\$103.75
JODIOIAL	TOTAL		18.0	\$477.03	18.0	\$477.03
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SUMMARY FO	R OTHER DIRECT COS	STS	INVOICE NO.: 1	
PROJECT NUN	BRONSON LAGOON F MBER: 2420-050	REMEDIATION	· -	
TRAVEL				
	Mileage Meals Lodging Other Travel Exp.	\$0.00 \$0.00 \$0.00 \$0.00		
		SUBTOTAL	\$0.00	
EQUIPMENT, N	MATERIALS & SUPPLIE	ES		
	Equipment Usage Supplies Other Field Services Trailer & Utilities	\$0.00 \$0.00 \$0.00 \$0.00		
		SUBTOTAL	\$0.00	
OTHER				
	Reproduction Shipping/Postage Communications	\$6.30 \$5.04 \$0.00		
		SUBTOTAL	\$11.34	
COMPUTER S	ERVICES			
	Technical PC Usage CADD Usage	\$0.00 \$0.00		
		SUBTOTAL	\$0.00	
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		\$0.00 \$0.00 \$0.00		
		SUBTOTAL	\$0.00	
		TOTAL AMOUNT DU	JE	\$11.34

DIRECT LABOR BY TASK

PROJECT NAME:

PROJECT NO.

TASK E10

LABOR	EMPLOYEE	SPENT 1	HIS PERIOD	ASK E IU
CLASS	NAME	RATE	HOURS	COST
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SUBTOTAL	TUDA COC EETAVIADIC	¢05.55	0.0	\$0.00
P3	THRASOS EFTAXIADIS	\$35.55	0.0	\$0.00 \$0.00
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SUBTOTAL			0.0	\$0.00
P2			0.0	\$0.00
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SUBTOTAL			0.0	\$0.00
T1			0.0	\$0.00
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SUBTOTAL	1	-	0.0	\$0.00 \$0.00
CL	DARA THOMAS	\$9.50	0.0	\$0.00
QL .	DARLENE HUFNAGEL	\$16.00	0.0	\$0.00
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SUBTOTAL			0.0	\$0.00
	TOTAL		0.0	\$0.00

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TIMESHEET PERIOD **EMPLOYEE** NAME **MALCOLM** LANSING - 410 **ENDING** NO. (PLEASE PRINT) PIRNIE LOCATION 10/04/96 3516 T. Eftaxiadis JOB NAME JOB NUMBER CHART OF TOTAL HOURS WORKED DAILY - BY DAY OF MONTH **ACCOUNTS** 09/28 | 09/29 | 09/30 | HOURS 10/02 27022 10/01 10/03 10/04 NUMBER SUN MON TUE WED THU THE REPORT OF THE PROPERTY OF BRONSON WP/BDG/CONTRACTS 2420-050-E10 4.0 ·罗特罗斯西西斯里斯 Alexander delign

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PROJECT NAME. N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

TASK NO: E10

PERIOD: JULY THROUGH OCTOBER 1996

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* = EXPENSE REPORTS

Pickup Date: 07/29/96
Pickup Record No: 950728 8 5

United Parcel Service
Daily Package Detail Record
for Common Carrier

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MALCOLM PIRNIE - LANSING/410

COPY SUMMARY DATE: Oct. 96

PROJECT	PROJECT	ACCOUNT	USER	TOTAL	AMOUNT
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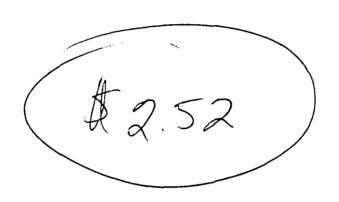
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#### MICHIGAN SUPERFUND SITE COOPERATIVE AGREEMENT QUARTERLY PROGRESS REPORT STATE LEAD SITE

Reporting Period: FY97, Q2

Site name: North Bronson Industrial Area (1C) CA #: V005934-01

Activity: RI/FS Budget period ends: 6/01/97

WORK ACCOMPLISHED DURING REPORTING PERIOD FOR THIS SITE AND ACTIVITY: (PROBLEMS AND DELAYS ENCOUNTERED THIS PERIOD, CORRECTIVE MEASURES TAKEN OR PLANNED) IDENTIFY BY TASK NAME AND NUMBER:

Task 5: Phase II Remedial Investigation
Task complete December 1991.

<u>Task 6: Remedial Investigation Report</u> Task complete July 1993.

Task 7: Baseline Risk Assessment Task complete July 1993.

<u>Task 8: Alternatives Array</u> Task complete September 1994.

Task 9: Feasibility Study

To further develop and refine the constructed wetland alternative, MDEQ staff identified three possible treatment scenarios for this alternative. Each scenario is based on the source and amount of contaminated water the constructed wetland would have to treat. Based on this information, Dr. Kadlec has prepared and submitted to the MDEQ a detailed wetland alternative for each scenario. The information provided by Dr. Kadlec includes wetland sizing for each scenario, predicted treatment efficiencies, and construction and O&M costs. This report will be included in the FS addendum and will provide enough information to proceed with a proposed plan.

The MDEQ has sub-contracted Dr. Kadlec through Malcolm Pirnie. MDEQ staff has prepared the Scope of Work and reviewed the deliverables submitted by Dr. Kadlec. Malcolm Pirnie administers the contract. A total of \$10,000 has been budgeted for the development of the wetland alternative.

The EPA has selected the city of Bronson as a pilot site for the Community Advisory Group (CAG). The CAG is an EPA community relations initiative administered by MDEQ. The CAG provides a setting in which volunteer representatives of the community sets there own agenda, gets up-to-date information about the status of clean-up activities, as well as discuss community views and concerns about the clean-up

process. The CAG has met monthly since the December 10, 1996 introductory meeting,. The MDEQ has participated in all meetings providing an overview of the CERCLA process and site background information.

MDEQ staff received the CLP sample results from the industrial sewer investigation in December. The data has been reviewed and organized into a draft Technical Memorandum by the site geologist. The draft "Tech Memo" will be submitted to EPA in May. Once approved the "Tech Memo" will be incorporated into the RI. The results of our analysis and the impact on future remedial actions will be discussed with EPA in May 1997.

The MDEQ project manager is preparing the final draft of the FS addendum. The FS will be completed in May and forwarded to the EPA for approval.

Expenditures for work under Task 9 will be captured under Task 10.

#### Task 10: Proposed Plan

The North Bronson RI/FS (proposed plan) schedule was revised to reflect the delay caused by the revisions to the FS and the screening of the constructed wetland alternative. The revised schedule will be submitted to the EPA for approval. The release date of the proposed plan for the site is May 30, 1997.

Task 11: Administrative Record

None.

Task 12: Draft ROD

None.

Task 13: Final ROD

None.

Task 14: Post ROD/Closet

None.

PLANNED % OF SCHEDULED ACTIVITIES (Task 10) TO BE COMPLETED: 100% ACTUAL % OF ACTIVITIES COMPLETED: 85%

EXPLANATION OF SIGNIFICANT DIFFERENCE: Refer to Task 10 comments.

PLANNED % OF SCHEDULED ACTIVITY (TASK 11) TO BE COMPLETED: 60% ACTUAL % OF ACTIVITY COMPLETED: 60%

## EXPLANATION OF SIGNIFICANT DIFFERENCE: NA FINANCIAL REPORTING FOR EACH ONGOING TASK

TASK 10 - PROPOSED PLAN		CONTRACTOR	<u>AGENCY</u>
Planned Budget		\$10,000	\$50,000
Estimated Expenditures prior to this qua	arter:	\$1,400	<b>\$7</b> 3,700
Estimated Expenditures* Quarter 2		\$2,353#	\$12,750
Estimated Expenditures to Date:		\$3,753	\$86,450
	ESTIMATED BALANCE	<b>56,247</b>	(\$36,450)

^{*} Expenditures reported under Task 10 include FS(Task 9) revisions, the wetland alternative review, CAG meetings and the industrial sewer investigation.

[#] Contractor invoice attached.

Task 11 - ADMINISTRATIVE RECORD	<b>CONTRACTOR</b>	<u>AGENCY</u>
Planned Budget	\$0	\$10,000
Estimated Expenditures prior to this quarter:	<b>\$</b> 0	\$ 1,000
Estimated Expenditures Quarter 2	\$0	\$ 0
Estimated Expenditures to Date:	\$0	\$ 1,000
ESTIMATED B	ALANCE: \$0	\$ 9,000

#### **TASKS 1-11 FINANCIAL REPORTING**

	<b>CONTRACTOR 1</b>	<b>CONTRACTOR 2</b>
PLANNED RI/FS BUDGET:	\$1,200,000	\$ 10,000
ESTIMATED EXPENDITURES PRIOR TO THIS QR:	\$1,038,000	\$ 1,340
ESTIMATED EXPENDITURES QUARTER 2	\$ 0	\$ 2,353
ESTIMATED EXPENDITURES TO DATE:	\$1,038,000	\$ 3,693
ESTIMATED BALANCE:	\$ 162,000	\$ 6,307
	<u>AGENCY</u>	
PLANNED RI/FS BUDGET:	\$240,000	
ESTIMATED EXPENDITURES PRIOR TO THIS QR:	\$254,000	
ESTIMATED EXPENDITURES QUARTER 2	\$ 12,750	
ESTIMATED EXPENDITURES TO DATE:	\$266,750	
ESTIMATED BALANCE:	\$(26,950)	

TOTAL FUNDING FOR THIS ACTIVITY (RI/FS): \$ 1,440,000 TOTAL ESTIMATED EXPENDITURES TO DATE \$ 1,308,643

FUNDS AND TIME REMAINING (BALANCE): \$131,357 and 3 months.

ESTIMATED TIME AND FUNDS NEEDED TO COMPLETE REQUIRED WORK: 3 months and \$130,000. Agency expenditures above the budgeted amounts will be covered by funds remaining in the total budget.

EXPLANATION OF ANY SIGNIFICANT DISCREPANCY/JUSTIFICATION FOR INCREASE: Current project end date is 97 June 01. Additional time will be required to complete the review of the wetland alternative, to incorporate it into the FS, and to accommodate the CAG.

Prepared by // Cum / Junion

Approved by

(Supervisor)

Date



#### MALCOLM PIRNIE ENGINEERS, LLP A MICHIGAN LIMITED LIABILITY PARTNERSHIP

MALCOLM PIRNIE, INC. **ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS** 

#### DIRECT LABOR/OVERHEAD & OTHER DIRECT COST INVOICE

DATE: February 14, 1997

INVOICE NO .: 2420-050-#2

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

COST RECOVERY BREAKDOWN FOR:

CONTRACT RELEASE NO.: 761 P 7000146

SERVICE PERIOD:

From November 2, 1996 through January 24, 1997, for services provided for Direct Labor and ODCs.

BILL TO:

Administration Section

Environmental Response Division

Michigan Department of Environmental Quality

P. O. Box 30426 Lansing, MI 48909

**IMIT PAYMENT TO:** 

Malcolm Pirnie Engineers

CONTRACT NO.: ERD #9499 FEDERAL ID NO. 13-3560452

102 Corporate Park Drive, Box 751

White Plains, NY 10602-0751

COPY TO

William L Harman

MDEQ-ERD Superfund 300 S. Washington Square

Lansing, MI 48933

TOTAL DIRECT LABOR

\$53.32

OVERHEAD 1.662%

\$88.62

LABOR FEE (10%)

\$14.19

NON - BILLABLE LABOR

\$0.00

**TOTAL LABOR** 

\$156.13

TOTAL OTHER DIRECT COSTS

\$1,997.50

FEE 10%

\$199.75 \

NON - BILLABLE EXPENSES

TOTAL ODC

\$2,197.25

TOTAL AMOUNT DUE

\$2,353.38

CONSULTANT'S CERTIFICATION I CERTIFY THAT THE SERVICES LISTED ABOVE ARE PROPER CHARGES AGAINST THE STATE OF MICHIGAN

me Consultant's Project Manager

411-C W LAKE LANSING ROAD EAST LANSING, MI 48823-1439

517-337-0111

fax 517-337-0147

http://www.pirnie.com

700129-

SUMMARY OF DIRECT LABOR

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

LABOR	EMPLOYEE		THIS PERIOD		JOB-TO	
CLASS	NAME	RATE	HOURS	COST	HOURS	COST
P4		<u> </u>	0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
		<del>;</del>	0.0	\$0.00	0.0	\$0.0
	<u> </u>		0.0	\$0.00	0.0	\$0.0
SUBTOTAL	Taribana Estavanta		0.0	\$0.00	0.0	\$0.0
Р3	THRASOS EFTAXIADIS	\$35.55	1.5	\$53.32	12.0	\$426.6
			0.0	\$0.00	0.0	\$0.0
		<del> </del>	0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
		<del> </del>	0.0	\$0.00	0.0	\$0.0
		+	0.0	\$0.00	0.0	\$0.0
		-	0.0	\$0.00	0.0	\$0.0
SUBTOTAL		<del> </del>	1.5	\$0.00 \$ <del>58.3</del> 2	0.0	\$0.0
		1	0.0		12.0	\$426.6
P2				\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
		-	0.0	\$0.00	0.0	\$0.0
		-	0.0	\$0.00 \$0.00	0.0	\$0.0 \$0.0
			0.0	\$0.00		
		-	0.0		0.0	\$0.0 \$0.0
			0.0	\$0.00	0.0	\$0.0 \$0.0
		-	0.0	\$0.00 \$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
	<u> </u>		0.0	\$0.00	0.0	\$0.0
		+	0.0	\$0.00	0.0	\$0.0
SUBTOTAL		<del></del>	0.0	\$0.00	0.0	\$0.0
P1			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
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	F		0.0	\$0.00	0.0	\$0.0
		<del>                                     </del>	0.0	\$0.00	0.0	\$0.0
	1	<del>                                     </del>	0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
		<del></del>	0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL	±	<del></del>	0.0	\$0.00	0.0	\$0.00
T1	1	- <del> -</del>	0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
		<del>                                     </del>	0.0	\$0.00	0.0	\$0.0
SUBTOTAL	<u> </u>	<del>                                     </del>	0.0	\$0.00	0.0	\$0.0
CL	DARA THOMAS	\$9.50	0.0	\$0.00	2.5	\$23.7
	DARLENE HUFNAGEL	\$16.00	0.0	\$0.00	5.0	\$80.0
		+	0.0	\$0.00	0.0	\$0.0
		<del></del>	0.0	\$0.00	0.0	\$0.0
			0.0	\$0.00	0.0	\$0.0
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			0.0	\$0.00	0.0	\$0.0
		. 4	0.0	\$0.00	0.0	\$0.0
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			0.0	\$0.00	0.0	\$0.0
SUBTOTAL	L	+	0.0	\$0.00	7.5	\$103.7
SUBICIAL	TOTAL	<del></del>	1.5	\$53.32 /	19.5	\$530.3

#### SUMMARY FOR OTHER DIRECT COSTS

INVOICE NO.: 2

PROJECT: N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

TRAVEL

Mileage	\$0.00
Meals	\$0.00
Lodging	\$0.00
Other Travel Exp.	\$0.00

SUBTOTAL \$0.00

#### EQUIPMENT, MATERIALS & SUPPLIES

Equipment Usage \$0.00 Supplies \$0.00 Other Field Services \$1,997.50 Trailer & Utilities \$0.00

SUBTOTAL \$1,997.50

#### OTHER

Reproduction \$0.00 Shipping/Postage \$0.00 Communications \$0.00

SUBTOTAL \$0.00

#### **COMPUTER SERVICES**

Technical PC Usage \$0.00 CADD Usage \$0.00

SUBTOTAL \$0.00

#### **MISCELLANEOUS**

\$0.00 \$0.00 \$0.00

SUBTOTAL \$0.00

TOTAL AMOUNT DUE \$1,997.50

#### DIRECT LABOR BY TASK

PROJECT NAME:

11100201111111	
PROJECT NO.	TASK E10

PROJECT NO				ASK E10
LABOR	EMPLOYEE	<del></del>	THIS PERIOD	
CLASS	NAME	RATE	HOURS	COST
P4			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL	TUDA COO ESTAVADO		0.0	\$0.00
РЗ	THRASOS EFTAXIADIS	\$35.55	1.5	\$53.32
			0.0	\$0.00
			0.0	\$0.00 \$0.00
		<del></del>	0.0	\$0.00
		<del>                                     </del>	0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			1.5	\$53.32
P2			0.0	\$0.00
-			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
	<u> </u>		0.0	\$0.00
		-	0.0	\$0.00
	<u></u>		0.0	\$0.00
CURTOTAL	<del></del>	<u> </u>	0.0	\$0.00
SUBTOTAL P1	•		0.0	\$0.00 \$0.00
FI	P	-i	0.0	\$0.00
		-+	0.0	\$0.00
		1	0.0	\$0.00
			0.0	\$0.00
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			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
OUDTOTAL -	<u> </u>		0.0	\$0.00
SUBTOTAL			0.0	\$0.00
T1		<del>                                     </del>	0.0	\$0.00
			0.0	\$0.00 \$0.00
			0.0	\$0.00
SUBTOTAL	1		0.0	\$0.00
CL	DARA THOMAS	\$9.50	0.0	\$0.00
02	DARLENE HUFNAGEL	\$16.00	0.0	\$0.00
			0.0	\$0.00
		!	0.0	\$0.00
			0.0	\$0.00
		1	0.0	\$0.00
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		<u> </u>	0.0	\$0.00
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SUBTOTAL	<u>,</u>		0.0	\$0.00
	TOTAL		1.5	\$53.32

PIRNIE LOCATION  12/06/96 3516 T. Eftaxiadis  JOB NAME    JOB NUMBER   CHART OF ACCOUNTS   HOURS   11/10   12/201   12/02   12/03   12/04   12/05     NAME   NAME		TIME	SHEET		PERIC	ac	EMPL	OYEE		NA	ME	
JOB NAME JOB NUMBER   2 1 1 代								(PLEASE PRINT)  T. Eftaxiadis				
2 7 194   ACCOUNTS   HOURS   11/30   12/01   12/02   12/08   12/04   12/05		LOCATIO										
2   1714   NUMBER   SAT SUN MON TUE WED THU	JOB NAME		JOB NUMBER				HOURS WORKE				Y OF MO	
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PIRNIE	LOCATIO		ENDING		NO.		(PLEASE PRINT)					
JOB NAME	L	IOD MINIDED	1 011457	0.5	12/20/9		35			T. Eftax		
JOB RAME		JOB NUMBER	ACCOU		TOTAL HOURS	12/14	12/15	WORKE	D DAILY 12/17	- BY DA	12/19	ONTH 12/20
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MALCOLM PIRNIE	TIME LANSING - 4 LOCATIO		PERIOD ENDING			EMPLOYEE NO.		NAME (PLEASE PRINT)						
JOB NAME		JOB NUMBER		01/10/97 TOTAL			16_		T. Eftax		ONTH.			
		127285	CHART OF ACCOUNTS NUMBER			OURS	01/04 SAT	01/05 SUN		01/07	- BY DAY OF M 01/08 01/09 WED THU			
BRONSON MGMT		2420-050-E10					0.5			0.5				
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PROJECT NAME IN BRONSON LAGGON REMEDIATION PROJECT NUMBER 2420~050

TASK NO E10

PERIOD NOVEMBER 1996 THROUGH JANUARY 1997

ID	]	TRAVEL				<u> </u>			OTHER DIRE	CT COSTS						
								COMPUTER	SERVICES				FIELD			
	MPI				•		-1	!'					OTHER		MPI	
	VE HICLES	OTHER	SUBST			SHIPPING/	COMMUNI-	:	OFFICE:	1			FIELD	TRAILER &	LAB	
	(MILEAGE)	TRAVEL	(MEALS)	LODGING	REPRO	POSTAGE	CATION	RENTAL	1	CADD	EQUIP	SUPPLIES	I	UTILITIES	SERVICES	TOTAL
	615	615	615	615	611	612	630	621	617	618	621	619	625	625	623	
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TOTAL	\$0.	00 \$0.00	\$0.	00 00 00								-				\$0.00
TOTAL		\$0.00	\$0.	00 \$0 00	\$0.00	\$0.0	0 \$0.00	\$0.00	\$0.00	\$0 00	\$0.0	0 \$0.00	\$1,997.50	\$0.00	\$0.00	\$1,997 50

TOTAL TRAVEL \$0.00
TOTAL ODC \$1,997.50
TOTAL
EXPENSES \$1,997.50

* = EXPENSE REPORTS

CHECK

\$1,997 50

### Wetland Management Services 6995 Westbourne Drive Chelsea, MI 48118-9527

11/5/96

T. Eftaxiadis

Date:

To:

	Malcolm Pirnie Engineers 411C West Lake Lansing Road East Lansing, MI 48823				
From:	Robert H. Kadlec				
Project:	North Bronson Treatment Wetlands				
Authoriz	cation: Contract 7/22/96	Your !	Project No.: 2	2420-050-E10	
Terms:	Net		Invoice N	<b>10.</b> 96-127-01	
Through	October 31, 1996				
Con	sultation and Services @ \$125.00/hr				
]	Feasibility Report 8 hours		\$1,000.00		
тот	ΓAL			\$1,000.00	
Please M	lake Checks Payable to: Robert H. Ka	idlec Pr		SING   - 0/0   2 0 - 0   5   5   5   5   5   5   5   5   5	
			erified By:		/
		Αŗ	oproved By:	Name Name	Emp   <u>35\</u> 
		Ar	mount to Pay	\$ 1000.	00
		Vo	oucher Number	9658	7991
		Ve	ndor ID Numbe	er: <u>569</u>	49°

Chec Number.

### Wetland Management Services 6995 Westbourne Drive Chelsea, MI 48118-9527

Date:

12/15/96

To:

T. Eftaxiadis

Malcolm Pirnie Engineers 411C West Lake Lansing Road

East Lansing, MI 48823

From:

Robert H. Kadlec

Project: North Bronson Treatment Wetlands

Authorization: Contract 7/22/96

Your Project No.: 2420-050-E10

Terms: Net

Invoice No. 96-127-02

November 1 through December 15, 1996		· · · · · ·
Consultation and Services: 7.5 hours @ \$125.00/hr Report comment review Site visit Planning and review meeting	\$937.50	
Travel expenses		
Bronson, MI 12/10/96	\$60.00	
TOTAL		\$997.50

Please Make Checks Payable to: Robert H. Kadlec

Authorized by Bill Harmon (1/6/97).

## MICHIGAN SUPERFUND SITE COOPERATIVE AGREEMENT QUARTERLY PROGRESS REPORT STATE LEAD SITE

CA #: V005934-01

Reporting Period: FY97, Q3

Site name: North Bronson Industrial Area (1C)

Activity: RI/FS Budget period ends: 6/30/97

WORK ACCOMPLISHED DURING REPORTING PERIOD FOR THIS SITE AND ACTIVITY: (PROBLEMS AND DELAYS ENCOUNTERED THIS PERIOD, CORRECTIVE MEASURES TAKEN OR PLANNED) <u>IDENTIFY BY TASK NAME AND NUMBER:</u>

Task 5: Phase II Remedial Investigation
Task complete December 1991.

<u>Task 6: Remedial Investigation Report</u> Task complete July 1993.

Task 7: Baseline Risk Assessment Task complete July 1993.

Task 8: Alternatives Array
Task complete September 1994.

Task 9: Feasibility Study

The MDEQ incorporated the detailed wetland alternative developed by Dr. Kadlec into the FS addendum. The report provided by Dr. Kadlec includes wetland sizing, treatment efficiencies, and construction and O&M costs. The MDEQ submitted a final draft FS addendum to the EPA for final review in June. The final FS addendum should be released to the public in July 1997.

The MDEQ has sub-contracted Dr. Kadlec through Malcolm Pirnie. MDEQ staff has prepared the Scope of Work and reviewed the deliverables submitted by Dr. Kadlec. Malcolm Pirnie administers the contract. The budget for the development of the wetland is \$10,000.

The EPA has selected the city of Bronson as a pilot site for the Community Advisory Group (CAG). The CAG is an EPA community relations initiative administered by MDEQ. The CAG provides a setting in which volunteer representatives of the community sets their own agenda, receives up-to-date information about the status of clean-up activities from the agencies, as well as discuss community views and concerns about the clean-up process. The MDEQ participated in a CAG meeting on April 29, 1997, to provide the group an update on the potential remedy for the site.

MDEQ staff received the CLP sample results from the industrial sewer investigation in December. The site geologist reviewed and organized the data into a draft Technical Memorandum. The MDEQ project manager will review the draft "Tech Memo" in August and submit it to EPA for review in September. Once approved, the agencies will incorporate the "Tech Memo" into the RI.

Task 9 expenditures will be reported under Task 10.

#### Task 10: Proposed Plan

The MDEQ project manager has prepared the first draft of the Proposed Plan for review by the EPA. The North Bronson RI/FS (proposed plan) schedule was revised to reflect the delay caused by the revisions to the FS and the screening of the constructed wetland alternative. The revised schedule has been approved by the EPA. The release date of the proposed plan is August 6, 1997.

#### Task 11: Administrative Record

A draft of the administrative record is complete. The final AR will be promulagated with the release of the proposed plan.

#### Task 12: Draft ROD

The draft ROD will be developed after the close of the proposed plan public comment period...

Task 13: Final ROD

None.

Task 14: Post ROD/Closet

None.

PLANNED % OF SCHEDULED ACTIVITIES (Task 10) TO BE COMPLETED: 100% ACTUAL % OF ACTIVITIES COMPLETED: 95%

EXPLANATION OF SIGNIFICANT DIFFERENCE: Refer to Task 10 comments.

PLANNED % OF SCHEDULED ACTIVITY (TASK 11) TO BE COMPLETED: 90% ACTUAL % OF ACTIVITY COMPLETED: 90%

PLANNED % OF SCHEDULED ACTIVITY (TASK 12) TO BE COMPLETED: 75 ACTUAL % OF ACTIVITY COMPLETED: 75%

EXPLANATION OF SIGNIFICANT DIFFERENCE: NA FINANCIAL REPORTING FOR EACH ONGOING TASK

TASK 10 - PROPOSED PLAN	<u>C</u>	ONTRACTOR	<u>AGENCY</u>
Planned Budget		\$10,000	\$50,000
Estimated Expenditures prior to this quarter:		\$3,753	\$86,450
Estimated Expenditures* Quarter 3		\$2,944#	\$ 7,000
Estimated Expenditures to Date:		\$6,697	\$93,450
EST	IMATED BALANCE:	\$3,303	(\$43,450)

^{*} Expenditures reported under Task 10 include FS(Task 9) revisions, the wetland alternative review, CAG meetings and the industrial sewer investigation.

[#] Contractor invoices are attached

Task 11 - ADMINISTRATIVE RECORD	<b>CONTRACTOR</b>	<u>AGENCY</u>
Planned Budget	\$0	\$10,000
Estimated Expenditures prior to this quarter:	<b>\$</b> 0	\$ 1,000
Estimated Expenditures Quarter 3	<b>\$</b> 0	\$ 1,000
Estimated Expenditures to Date:	\$0	\$ 2,000
ESTIMATED B	ALANCE: \$0	\$ 8,000

Task 12 - DRAFT ROD	<u>CONTRACTOR</u>	<u>AGENCY</u>
Planned Budget	\$0	\$20,000
Estimated Expenditures prior to this quarter:	\$0	\$ 0
Estimated Expenditures Quarter 3	\$0	\$ 2,000
Estimated Expenditures to Date:	\$0	\$ 2,000
ESTIMATED	BALANCE	\$18,000

#### **TASKS 1-12 FINANCIAL REPORTING**

	CONTRACTOR I	CONTRACTOR 2
PLANNED RI/FS BUDGET:	\$1,200,000	\$ 10,000
ESTIMATED EXPENDITURES PRIOR TO THIS QR:	\$1,038,000	\$ 3,693
ESTIMATED EXPENDITURES QUARTER 3	\$ 0	\$ 2,944
ESTIMATED EXPENDITURES TO DATE:	\$1,038,000	\$ 6,637
ESTIMATED BALANCE:	\$ 162,000	\$ 3,363

	<u>AGENCY</u>	
PLANNED RI/FS BUDGET:	\$240,000	
ESTIMATED EXPENDITURES PRIOR TO THIS QR:	\$266,750	
ESTIMATED EXPENDITURES QUARTER 3	\$ 10,000	
ESTIMATED EXPENDITURES TO DATE:	\$276,750	
ESTIMATED BALANCE:	\$(36,950)	
	# 1 440 000	
TOTAL FUNDING FOR THIS ACTIVITY (RI/FS):	\$ 1,440,000	
TOTAL ESTIMATED EXPENDITURES TO DATE:	\$ 1,321,587	

ESTIMATED TIME AND FUNDS NEEDED TO COMPLETE REQUIRED WORK: 15 months and \$118,000. Agency expenditures above the budgeted amounts will be covered by funds remaining in the total budget.

**FUNDS AND TIME REMAINING (BALANCE):** 

\$118,357 and 15 months.

EXPLANATION OF ANY SIGNIFICANT DISCREPANCY/JUSTIFICATION FOR INCREASE: A The MDEQ has requested an extension of the current project end date of 97 June 30 to 98 September 30. The MDEQ will require additional time to complete the review of the wetland alternative, complete the FS addendum, accommodate the requests of the CAG and potentilly to investigate a remedity for the industrial sewer.

Prepared by William January Date 8/12/9

Approved by feet (Supervisor)

Date 8/12/97

MALCOLM PIRNIE, INC. ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

#### DIRECT LABOR/OVERHEAD & OTHER DIRECT COST INVOICE

DATE: May 23, 1997

INVOICE NO.: 2420-050-#4

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

COST RECOVERY BREAKDOWN FOR:

CONTRACT RELEASE NO.: 761 P 7000146

SERVICE PERIOD:

From March 29, 1997 through April 25, 1997, for services provided for Direct Labor and ODCs.

BILL TO:

Administration Section

Environmental Response Division

Michigan Department of Environmental Quality

P. O. Box 30426 Lansing, MI 48909

REMIT PAYMENT TO:

Malcolm Pirnie Engineers

CONTRACT NO.: ERD #9499

102 Corporate Park Drive, Box 751

White Plains, NY 10602-0751

FEDERAL ID NO. 13-3560452

COPY TO:

William L. Harman

MDEQ-ERD Superfund 300 S. Washington Square

Lansing, MI 48933

TOTAL DIRECT LABOR

\$121.13

OVERHEAD 1.662%

\$201.32

LABOR FEE (10%)

\$32.24

NON-BILLABLE LABOR

\$14.64

**TOTAL LABOR** 

\$354.69

TOTAL OTHER DIRECT COSTS

\$2,002.40

FEE 10%

\$200.24

NON-BILLABLE EXPENSES

\$0.00

TOTAL ODC

\$2,202.64

TOTAL AMOUNT DUE

\$2,557.33

CONSULTANT'S CERTIFICATION: I CERTIFY THAT THE SERVICES LISTED ABOVE ARE

PROPER CHARGES AGAINST THE STATE OF MICHIGAN.

Certifying Signature of Consultant Staff

rime Consultant's Project Manager

http://www.pirnie.com

1400 ABBOTT ROAD

SUITE 140 EAST LANSING, MI 48823-1900

SUMMARY OF DIRECT LABOR

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

LABOR	EMPLOYEE	<del></del>	THIS PERIOD		JOB-TO	
CLASS	NAME	RATE	HOURS	COST	HOURS	COST
P4			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0			\$0.00
				\$0.00		\$0.00
			0.0	\$0.00		\$0.00
SUBTOTAL		<u> </u>	0.0	\$0.00	0.0	\$0.00
P3	THRASOS EFTAXIADIS	\$36.00	2.5	\$90.00	17.5	\$623.25
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
		<u> </u>	0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL			2.5	\$90.00	17.5	\$623.25
P2			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
		·	0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
		:	0.0	\$0,00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
			0.0	\$0.00	0.0	\$0.00
	<u>'</u>		0.0	\$0.00	0.0	\$0.00
						\$0.00
						\$0.00
						\$0.00
	0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       17.5       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0       0.0   \$0.00   0.0	\$0.00				
<del>=::==================================</del>	<del></del>					\$0.00
SUBTOTAL		<del> </del>				\$0.00
P1			<del></del>			\$0.00
		<u></u>				\$0.00
						\$0.00
			<del></del>			\$0.00
						\$0.00
						\$0.00
		<del></del>				\$0.00
						\$0.00
						\$0.00
						\$0.00
						\$0.00
						\$0.00
OUDTOTAL				<del></del>		\$0.00
SUBTOTAL	·					\$0.00
T1						\$0.00
						\$0.00
						\$0.00
SUBTOTAL	<u></u>					\$0.00
CL	DARA THOMAS	640.06				\$0.00
CL						\$28.88 \$120.00
						\$120.00
	TONTAFILINIAN	\$10.00				\$0.00
		<del>+</del>				\$0.00
						\$0.00
			0.0	\$0.00	0.0	\$0.00
	L	<del></del>	0.0	\$0.00	0.0	\$0.00
					1/1/	
			0.0	\$0.00	0.0	\$0.00
SUBTOTAL						

SUMMARY FO	R OTHER DIRECT CO	STS	INVOICE NO.: 4
PROJECT: N.	BRONSON LAGOON	REMEDIATION	
PROJECT NUM	MBER: 2420-050		
TRAVEL	<del>_</del>		
	Mileage Meals Lodging Other Travel Exp.	\$0.00 \$0.00 \$0.00 \$0.00	
		SUBTOTAL	\$0.00
EQUIPMENT, I	MATERIALS & SUPPLIE	ES	
	Equipment Usage Supplies Other Field Services Trailer & Utilities	\$0.00 \$0.00 \$2,000.00 \$0.00	
	,	SUBTOTAL	\$2,000.00
OTHER			
	Reproduction Shipping/Postage Communications	\$2.40 \$0.00 \$0.00	
		SUBTOTAL	\$2.40
JOMPUTER SI	ERVICES		
	Technical PC Usage CADD Usage	° \$0.00 \$0.00	
		SUBTOTAL	\$0.00
MISCELLANEC	DUS		
		\$0.00 \$0.00	

TOTAL AMOUNT DUE

\$0.00

SUBTOTAL

\$2,002.40

\$0.00

DIRECT LABOR BY TASK

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NO. 2420-050

TASK E20

PHOJECT NO	). 2420-050			ASK E20
LABOR	EMPLOYEE	SPENT	THIS PERIOD	
CLASS	NAME	RATE	HOURS	COST
			0.0	\$0.00
			0.0	\$0.00
•			0.0	\$0.00
	****		0.0	\$0.00
			0.0	\$0.00
CLIDTOTAL			0.0	\$0.00
	TUDAGOO EETAVIADIO	400.00		
P3	THRASUS EFTAXIADIS	\$36.00	2.5	\$90.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0,00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			2.5	\$90.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
į			0.0	\$0.00
		<u> </u>	0.0	\$0.00
			<del></del>	
		<del></del>	0.0	\$0.00
	·············		0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
	CLASS NAME P4  P4  JBTOTAL P3  THRASOS EFTAXIADIS  BTOTAL P1  BTOTAL CL DARA THOMAS DARLENE HUFNAGEL TONYA PIERMAN		0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
			0.0	\$0.00
		1	0.0	\$0.00
}			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
		<del>                                     </del>	0.0	\$0.00
			0.0	\$0.00
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			0.0	\$0.00
	<u> </u>		0.0	\$0.00
	ļ		0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
T1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
	DARA THOMAS	\$10.26	0.0	\$0.00
1		\$16.00	0.0	\$0.00
		\$10.00	1.0	\$10.00
		Ţ	0.0	\$0.00
		<del>                                     </del>	0.0	\$0.00
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1			0.0	\$0.00
			0.0	\$0.00
	-		0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			1.0	\$10.00
	TOTAL		3.5	\$100.00

DIRECT LABOR BY TASK

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NO. 2420-050

TASK E30

SUBTOTAL  P3  THRASOS EFTAXIADIS  S36.00  0.0  S0.00  S0.00  S0.00  S0.00  S0.00  SUBTOTAL  P2  0.0  0.0  S0.00	PROJECT NO	· <del>,,</del>		<del></del>	ASK E30
P4	LABOR	EMPLOYEE	SPENT	THIS PERIOD	
P4	CLASS	NAME	RATE	HOURS	COST
SUBTOTAL  P3 THRASOS EFTAXIADIS S36.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				0.0	\$0.00
SUBTOTAL  P3				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
P3				0.0	\$0.00
	SUBTOTAL			0.0	\$0.00
		THRASOS EFTAXIADIS	\$36.00	0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL  P1    0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
SUBTOTAL				0.0	\$0.00
P2	SUBTOTAL				\$0.00
					\$0.00
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			_		
					\$0.00
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		,			
					\$0.00
SUBTOTAL	1				\$0.00
SUBTOTAL					
SUBTOTAL			1		
SUBTOTAL   0.0 \$0.00			- i		
P1	SUBTOTAL				
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SUBTOTAL         0.0         \$0.00           CL         DARA THOMAS         \$10.26         0.5         \$5.13           DARLENE HUFNAGEL         \$16.00         1.0         \$16.00           TONYA PIERMAN         \$10.00         0.0         \$0.00           0.0         \$0.00         \$0.00           0.0         \$0.00         \$0.00           0.0         \$0.00         \$0.00           0.0         \$0.00         \$0.00           SUBTOTAL         1.5         \$21.13					
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REV 8/96 (ETS 1.2c) Page 1 PIRNIE

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APPROVED/REVIEWED BY

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#### EXPENSE WORKSHEET

PROJECT NAME: N. BRONSON LAGOON REMEDIATION PROJECT NUMBER: 2420-050

TASK NO: E30

PERIOD: APRIL 1997

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MALCOLM PIRNIE - LANSING/410 COPY SUMMARY
DATE: April 97

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#### Wetland Management Services 6995 Westbourne Drive Chelsea, MI 48118-9527

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4/19/97

To:

T. Eftaxiadis

Malcolm Pirnie Engineers 411C West Lake Lansing Road

East Lansing, MI 48823

From:

Robert H. Kadlec

Project: North Bronson Treatment Wetlands

Authorization: Contract 4/2/97

Your Project No.: 2420-050-E30

Terms: Net

Invoice No. 97-127-01

March 1 through March 31, 1997	
Consultation and Services: 16 hours @ \$125.00/hr Conceptual design	\$2,000.00
TOTAL	\$2,000.00

Group: LANSING

Please Make Checks Payable to: Robert H. Kadlec

Project 2420 - 05 - 0 E 3 C

Check ( ) if charge is Non-Billable

Verlfied By:

Name

Emp #

Approved By: \( \frac{1}{2} \)

Name

Name

Emp #

Amount to Pay

\$ 2000.00

Amount to Pay
Voucher Number:

9722922

Vendor ID Number:

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#### Wetland Management Services

6995 Westbourne Drive
Chelsea, Michigan 48118-9527
Phone: 313-475-7256, Fax: 313-475-3516

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April 19, 1997



T. Eftaxiadis
Malcolm Pirnie Engineers
411C West Lake Lansing Road
East Lansing, MI 48823

Dear Mr. Eftaxiadis:

Enclosed is an invoice covering the preparation of a draft conceptual design report for the best current alternative for constructed wetlands treatment of the contaminated waters at the North Bronson sites.

This invoice does not necessarily cover the completion of expenditures under the current authorization. A review meeting is contemplated; Bill Harmon will make decisions about the need for and timing of such a meeting.

Sincerely yours,

Robert H. Kadlec

PhD, P.E.



### MALCOLM PIRNIE, INC. ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

DIRECT	LABOR/OVERHEAD	&	<b>OTHER</b>	DIRECT	COST	INVOICE

DATE: April 25, 1997

INVOICE NO .: 2420-050-#3

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

COST RECOVERY BREAKDOWN FOR:

CONTRACT RELEASE NO.: 761 P 7000146

SERVICE PERIOD:

From January 25, 1997 through March 28, 1997, for services provided for Direct Labor and ODCs.

BILL TO:

Administration Section

Environmental Response Division

Michigan Department of Environmental Quality

P. O. Box 30426 Lansing, MI 48909

REMIT PAYMENT TO:

Malcolm Pirnie Engineers

CONTRACT NO.: ERD #9499 FEDERAL ID NO. 13-3560452

102 Corporate Park Drive, Box 751

White Plains, NY 10602-0751

COPY TO:

William L. Harman

MDEQ-ERD Superfund 300 S. Washington Square

Lansing, MI 48933

TOTAL DIRECT LABOR

\$130.65

OVERHEAD 1.662%

\$217.14

LABOR FEE (10%)

\$34.78

NON-BILLABLE LABOR

\$14.64

**TOTAL LABOR** 

\$382.57

TOTAL OTHER DIRECT COSTS

\$3.27

FEE 10%

\$0.33

NON-BILLABLE EXPENSES

\$0.00

TOTAL ODC

\$3.60

TOTAL AMOUNT DUE

\$386.17

CONSULTANT'S CERTIFICATION: I CERTIFY THAT THE SERVICES LISTED ABOVE ARE PROPER CHARGES AGAINST THE STATE OF MICHIGAN.

Certifying Signature of Consultant Staff

4/23/9

for £17 227 0417

http://www.pirnie.com

Signature of Polime Boon's Brand's Project Manage AST LANSING, MI 48823-1900 517-337 Date:

### SUMMARY FOR OTHER DIRECT COSTS

INVOICE NO.: 3

PROJECT: N. BRONSON LAGOON REMEDIATION

PROJECT NUMBER: 2420-050

TRAVEL

Mileage	\$0.00
Meals	\$0.00
Lodging	\$0.00
Other Travel Exp.	\$0.00

SUBTOTAL

\$0.00

#### EQUIPMENT, MATERIALS & SUPPLIES

Equipment Usage	\$0.00
Supplies	\$0.00
Other Field Services	\$0.00
Trailer & Utilities	\$0.00

SUBTOTAL

\$0.00

#### OTHER

Reproduction	\$0.00
Shipping/Postage	\$3.27
Communications	\$0.00

SUBTOTAL

\$3.27

#### **COMPUTER SERVICES**

Technical PC Usage	\$0.00
CADD Usage	\$0.00

SUBTOTAL

\$0.00

#### MISCELLANEOUS

\$0.00
\$0.00
\$0.00

SUBTOTAL

\$0.00

TOTAL AMOUNT DUE

\$3.27

#### DIRECT LABOR BY TASK

PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NO. 2420-050

TASK E10

	O. 2420-050	005115		ASK E10
LABOR	EMPLOYEE		THIS PERIOD	<del> </del>
CLASS	NAME	RATE	HOURS	COST
P4			0.0	\$0.00
1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
P3	THRASOS EFTAXIADIS	\$35.55	1.0	\$35.55
			0.0	\$0.00
1			0.0	\$0.00
			0.0	\$0.00
1			0.0	\$0.00
			0.0	\$0.00
İ			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL		<del></del>	1.0	\$35.55
P2	T		0.0	\$0.00
12			0.0	\$0.00
			0.0	\$0.00
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			0.0	\$0.00
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			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
P1			0.0	\$0.00
}			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
· ·			0.0	\$0.00
			0.0	\$0.00
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			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
T1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
CL	DARA THOMAS	\$9.50	0.0	\$0.00
	DARLENE HUFNAGEL	\$16.00	1.5	\$24.00
			0.0	\$0.00
			0.0	\$0.00
1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
		<del>                                     </del>	0.0	\$0.00
SUBTOTAL	<del></del>		1.5	\$24.00
	TOTAL	<del> </del>	2.5	\$59.55
	19176	<del></del>		<del></del>

#### DIRECT LABOR BY TASK

#### PROJECT NAME: N. BRONSON LAGOON REMEDIATION

PROJECT NO. 2420-050

TASK E20

LABOR	O. 2420-050 EMPLOYEE	SPENT	THIS PERIOD	ASK E20
CLASS	NAME	RATE	HOURS	COST
P4	17,1112	7,7,1,2	0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
P3	THRASOS EFTAXIADIS	\$35.55	2.0	\$71.10
			0.0	\$0.00 \$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			2.0	\$71.10
P2			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00 \$0.00
		+	0.0	\$0.00
}			0.0	\$0.00
		1	0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
SUBTOTAL			0.0	\$0.00
P1			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00 \$0.00
		<del></del>	0.0	\$0.00
		+	0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
	<u> </u>		0.0	\$0.00
SUBTOTAL			0.0	\$0.00
T1			0.0	\$0.00
	T		0.0	\$0.00 \$0.00
		<del>                                     </del>	0.0	\$0.00
SUBTOTAL		+	0.0	\$0.00
CL	DARA THOMAS	\$9.50	0.0	\$0.00
	DARLENE HUFNAGEL	\$16.00	0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
			0.0	\$0.00
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SUBTOTAL	TOTAL	+	2.0	\$0.00 \$71.10
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TIME SHEET PERIOD **EMPLOYEE** NAME **MALCOLM** LANSING - 410 **ENDING** NO. (PLEASE PRINT) **PIRNIE** LOCATION 02/14/97 3516 T. EFTAXIADIS JOB NAME JOB NUMBER CHART OF HOURS WORKED DAILY - BY DAY OF MONTH TOTAL HOURS **ACCOUNTS** 02/08 02/09 02/10 02/11 02/12 02/13 02/14 NUMBER SAT SUN MON TUE WED THU BRONSON 2420-050-E10 0.5 0.5 APPROVED BY:

TIME SHEET PERIOD **EMPLOYEE** NAME MALCOLM LANSING - 410 **ENDING** NO. (PLEASE PRINT) **PIRNIE** LOCATION 02/28/97 3516 T. Eflaxiadis JOB NAME JOB NUMBER CHART OF TOTAL HOURS WORKED DAILY - BY DAY OF MONTH **ACCOUNTS** HOURS 02/22 | 02/23 | 02/24 02/25 02/26 02/27 02/28 NUMBER SUN MON SAT TUE THU FRI BRONSON 2420-050-E10 0.5 0,5

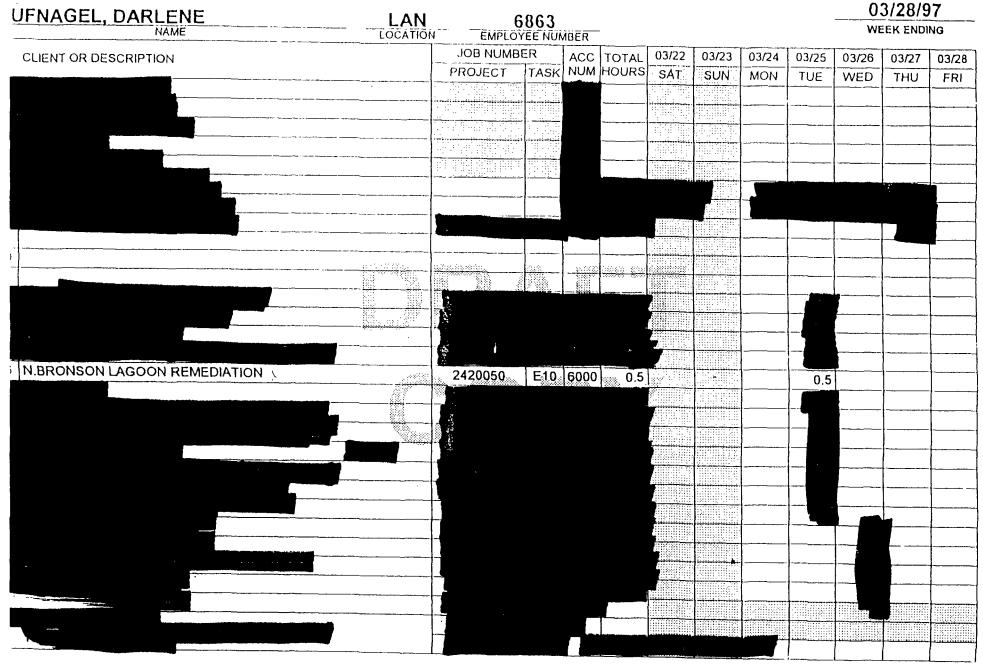
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TIME SHEET  MALCOLM  LANSING - 410  LOCATION				PERIOD ENDING		EMPLOYEE NO.		NAME (PLEASE PRINT)						
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TIME SHEET **PERIOD EMPLOYEE** NAME MALCOLM LANSING - 410 **ENDING** (PLEASE PRINT) NO. **PIRNIE** LOCATION 03/07/97 6863 DARLENE E. HUFNAGEL JOB NAME JOB NUMBER **CHART OF** HOURS WORKED DAILY - BY DAY OF MONTH TOTAL ACCOUNTS HOURS 03/01 03/02 03/03 03/04 03/05 03/06 03/07 NUMBER SAT SUN MON TUE WED THU FRI North Bronson - Project Assignment 2420-050-E10 1.0 1.0

### ALCOLM TIME SHEET PIRNIE



Continued on the next page. APPROVED/REVIEWED BY



PROJECT NAME: N. BRONSON LAGOON REMEDIATION PROJECT NUMBER: 2420-050

TASK NO: E10

PERIOD: FEBRUARY 1997 THROUGH MARCH 1997

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	MPI VEHICLES (MILEAGE)	OTHER TRAVEL	SUBST. (MEALS)	LODGING	REPRO.	SHIPPING/ POSTAGE	COMMUNI-	RENTAL	OFFICE/ FIELD	CADD	EQUIP.	SUPPLIES	OTHER FIELD SERVICES	TRAILER & UTILITIES	MPI LAB SERVICES	TOTAL
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TOTAL	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	\$3.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

TOTAL TRAVEL	\$0.00
TOTAL ODC	\$3.27
TOTAL	
EXPENSES	\$3.27

* = EXPENSE REPORTS

. . .

ickup Date: 03/04/97 Pickup Record No: 950728 46 1

United Parcel Service Daily Package Detail Record for Common Carrier

Package ID Customer #

Reference# Company Name Dest Code

Zn Address

2

Wt Package Chg

City

2420-050-*El0*48933

1.0

3.27

6121-B HARMON MDEQ-ERD, SPECIAL 300 S. WASHINGTON

LANSING

## MICHIGAN SUPERFUND SITE COOPERATIVE AGREEMENT QUARTERLY PROGRESS REPORT STATE LEAD SITE

Reporting Period: FY97, Q4

Site name: North Bronson Industrial Area (1C)

**CA #:** V005934-01 **Budget period ends:** 6/30/97

Activity: RI/FS

WORK ACCOMPLISHED DURING REPORTING PERIOD FOR THIS SITE AND ACTIVITY: (PROBLEMS AND DELAYS ENCOUNTERED THIS PERIOD, CORRECTIVE MEASURES TAKEN OR PLANNED) IDENTIFY BY TASK NAME AND NUMBER:

#### Task 5: Phase II Remedial Investigation

Task complete December 1991.

#### Task 6: Remedial Investigation Report

Task complete July 1993.

#### Task 7: Baseline Risk Assessment

Task complete July 1993.

#### Task 8: Alternatives Array

Task complete September 1994.

#### Task 9: Feasibility Study

Task complete July 15, 1997.

#### Task 10: Proposed Plan

The MDEQ developed, produced and released the proposed plan to the public on August 6, 1997. The MDEQ held a proposed plan public meeting in the city of Bronson on August 19, 1997. Alan Waltz and Heather Nelson represented the EPA at the meeting.

#### Task 11: Administrative Record

The MDEQ completed the AR. The AR is available for public review at the Bronson public library.

#### Task 12: Draft ROD

Task Complete. Final comments on the proposed plan were received by MDEQ on September 8, 1997. The MDEQ completed the draft ROD and Responsiveness Summary September 30, 1997.

<u>Task 13: Final ROD</u>: Work in progress. The ROD is scheduled to be completed during the first quarter of FY 98.

Task 14: Post ROD/Closet: None.

**PLANNED** % OF SCHEDULED ACTIVITIES (Task 10) TO BE **COMPLETED**: 100% **ACTUAL** % OF ACTIVITIES **COMPLETED**: 100%

**PLANNED** % OF SCHEDULED ACTIVITY (TASK 11) TO BE **COMPLETED**: 100% **ACTUAL** % OF ACTIVITY **COMPLETED**: 100%

**PLANNED** % OF SCHEDULED ACTIVITY (TASK 12) TO BE **COMPLETED**: \$100 **ACTUAL** % OF ACTIVITY **COMPLETED**: 100%

EXPLANATION OF SIGNIFICANT DIFFERENCE: NA

#### FINANCIAL REPORTING FOR EACH ONGOING TASK

TASK 10 - PROPOSED PLAN	<u>CONTRACTOR</u>	<u>AGENCY</u>
• Planned <b>Budget</b>	\$10,000	\$50,000
• Estimated Expenditures prior to this quarter:	\$6,697	\$93,450
• Estimated Expenditures Quarter 4	\$0	\$9,800*
• Estimated <b>Expenditures</b> to Date:	\$6,697	\$103,250
ESTIMATED BALANCE:	\$2,503	(\$53,250)

^{*}Agency expenditures under this task include revisions to the FS.

<ul> <li>Task 11 - ADMINISTRATIVE RECORD</li> <li>Planned Budget</li> <li>Estimated Expenditures prior to this quarter:</li> </ul>	CONTRACTOR \$0 \$0	AGENCY \$10,000 \$ 2,000
<ul> <li>Estimated Expenditures Quarter 4</li> <li>Estimated Expenditures to Date:</li> </ul>	\$0 \$0	\$ 2,000 \$ 4,000
ESTIMATED <b>BAL</b>		\$ 6,000
Task 12 - DRAFT ROD	CONTRACTOR	<u>AGENCY</u>

Task 12 - DRAFT ROD	<u>CONTRACTOR</u>	<u>AGENCY</u>
Planned Budget	\$0	\$20,000
• Estimated <b>Expenditures</b> prior to this quarter:	\$0	\$ 2,000
• Estimated <b>Expenditures</b> Quarter 4	\$0	\$ 11,000
• Estimated Expenditures to Date:	\$0	\$ 13,000
ESTIMA	ATED BALANCE	\$ 7,000

#### TASKS 1-12 FINANCIAL REPORTING

	<u>CONTRACTORS</u>	CONTRACTOR 1	CONTRACTOR 2
•	PLANNED RI/FS BUDGET:	\$1,200,000	\$10,000
•	PREVIOUS ESTIMATED EXPENDITURES:	\$1,038,000	\$4,000
•	ESTIMATED <b>EXPENDITURES</b> QUARTER 4	\$0	\$0
	ESTIMATED <b>EXPENDITURES</b> TO DATE:	\$1,038,000	\$7,000
•	ESTIMATED BALANCE	\$162,000	\$3,000
	<u>AGENCY</u>		
•	PLANNED RI/FS BUDGET:		\$240,000
•	PREVIOUS ESTIMATED <b>EXPENDITURES</b> :		\$277,000
•	ESTIMATED EXPENDITURES QUARTER 4		\$ 23,000
•	ESTIMATED <b>EXPENDITURES</b> TO DATE:		\$300,000
•	ESTIMATED BALANCE:		\$(60,000)

TOTAL FUNDING FOR THIS ACTIVITY (RI/FS):	\$ 1,440,000
TOTAL ESTIMATED EXPENDITURES TO DATE:	\$ 1,345,000

\$95,000 and 12 months. FUNDS AND TIME REMAINING (BALANCE):

ESTIMATED TIME AND FUNDS NEEDED TO COMPLETE REQUIRED WORK: 12 months and \$95,000. Agency expenditures above budgeted amounts will be covered by funds remaining in the total budget.

EXPLANATION OF ANY SIGNIFICANT DISCREPANCY/JUSTIFICATION FOR INCREASE: None

Date  $\frac{11/14/97}{47}$